

# HF Happenings 460

South African Radio League 1925 - 2010 Suid-Afrikaanse Radioliga  
Member Society of the International Amateur Radio Union Region 1  
Subscribe to HF Happenings via [HF\\_Happenings-subscribe@yahoogroups.com](mailto:HF_Happenings-subscribe@yahoogroups.com)

*23 to 27 - SARL Top Band QSO Party  
Find the rules in the 2011 SARL Contest Manual*



## Revolutionary military antenna approach unveiled

Press release

Eleven years of development have finally paid off for Fractal Antenna Systems, Inc. The firm announced today that it has perfected a new wideband antenna approach based upon its proprietary fractal technology. The new approach, dubbed 'dissimulation™ antennas', is designed to solve the problems encountered with real antennas in the war fighter's environment, while attaining form factors that disguise the antennas' functionality.

The modern war fighter needs wideband antennas. Previous efforts that are now in use, are highly restricted by their size, component complexity, weight, power handling, and heat dissipation, as well as frequency coverage. Inventor Nathan Cohen notes: "Wideband antennas now in use are a hodge-podge of conventional designs clunked together in a single antenna. The compromises they introduce set severe restrictions on the user scenario, size, cost and enablement. In our dissimulation™ antennas, we have freed up that set of restrictions as best as the laws of nature allow."

Using intricate, self-repeating and self-scaling fractal geometry, this antenna approach has achieved the 'sweet spot' of wide bandwidth, with small size and construction simplicity, while interfacing smoothly with existing equipment. "We tried solving these problems many years ago, working first with British MOD, and over many years have made evolutionary performance improvements with our USG and DOD offerings. But the final outcome is something really new and exciting. The fact that we did this with fractals is no accident, but a deliberate effort to leverage all the advantages that fractals have shown us over the course of decades", notes Cohen.

One key advantage to the dissimulation™ antenna approach is the deceptiveness of their appearance relative to their performance matrix. "Good luck eyeballing one of these antennas and guessing what they are being used for or how well they work. Most can hardly be recognised as being antennas. They are naturally stealthy. The technology is a real game-changer," says Cohen.

*Be Surprised by the World of Amateur Radio*





The dissimulation™ antenna line is at advanced TRL levels and available for immediate needs and acquisition for EW, DF, SIGINT, COMS, and other antenna applications. Available directly and sold to US Government, DOD, and NATO nations only. <http://www.fractenna.com>

## DXCC News

Bill Moore, NC1L, ARRL Awards Branch, reports that the following operations are approved for DXCC credit:

TJ9PF - Cameroon, 2011 operation

Special Note: "We have been notified that the TJ9PF QSL labels have been printed with the year 2001 instead of 2011. This is a known software bug that has been fixed. Regardless, we do not believe the integrity of the TJ9PF logs or operation is affected by this printing error. In addition, the TJ9PF logs have now been uploaded to LoTW, providing a primary source of QSO confirmations. We will add instructions to the DXCC system internally to note this operation's correct year. No one wants to promote the wasting of resources to reprint labels or cards, or to require resending of cards to fix an error which has little effect on the program. DXCC will accept TJ9PF QSLs showing the date as 2001.

VK0KEV - Macquarie Island, current operation.

If you have cards that were recently rejected for these operations, send an e-mail to the ARRL DXCC Desk. Once your record is updated, results will appear in Logbook of The World accounts or in the live, daily DXCC Standings.

## South Sudan

The Intrepid-DX Group and the DX Friends/Tifariti Gang [www.dxfriends.com/SouthernSudan2011](http://www.dxfriends.com/SouthernSudan2011) continue to move forward with their plans to activate Southern Sudan. "We have held several successful meetings with representatives of the Government of Southern Sudan," they say in their Press Release #3 dated 6 June. "We have been

### June 1011

- 1 - International Children's Day
- 2 - Ascension Day
- 4 - RTA, Port Elizabeth**
- 5 - World Environmental Day
- 11 - Portugal Day Contest
- 12 - Pentecost
- 16 - Youth Day; SARL Youth Day Sprint**
- 17 - World QRP Day; School holiday
- 18 - Programming in Windows, Gauteng**
- 18 and 19 - All Asian DX CW Contest; International Museum Weekend
- 19 - Fathers' day
- 23 to 27 - SARL Top Band QSO Party**
- 24 - Schools close
- 24 to 26 - Ham Radio 2011, Friedrichshafen, Germany
- 25 and 26 - ARRL Field Day; ; International Museum Weekend





issued an amateur radio license for the purpose of this DXpedition. The Government of South Sudan is very supportive of our plans to visit Juba and to help them celebrate the birth of their new country.

The Government of South Sudan will declare their independence from Sudan on 9 July 2011. They have applied to the UN for admission as a member state. The UN General Assembly and Security Council will vote on the matter in the weeks following the declaration of independence.

While there have been attacks and fighting in the disputed border region of Abyei, these issues are not expected to derail the emergence of this new country.

We plan to be in the new capital of Juba and to be ready to start our DXpedition upon admission by the UN. We will have 18 operators operating 24/7 on seven active stations. At this time, we are seeking Foundation, Club and Individual Sponsors to help us defray the costs of carrying out this DXpedition."

## Near-vertical incidence sky wave measurements published

Dr Marcus Walden, G0IJZ, recently attended the 13<sup>th</sup> International Ionospheric Effects Symposium in Alexandria, USA. Marcus gave a presentation titled Comparison of Propagation Predictions and Measurements for Mid-Latitude HF NVIS Links at 5 MHz. This compared near-vertical incidence sky wave measurements from the UK 5 MHz beacon network with HF propagation predictions using VOACAP and ASAP software.

Further information and a link to the paper can be found on the RSGB website at [www.rsgb.org/spectrumforum/hf/5mhzintro.php](http://www.rsgb.org/spectrumforum/hf/5mhzintro.php).

## African DX

Malawi, 7Q. Explorer Scouts on the Scottish Scout "New Horizons" Expedition will carry out practical development work at the Makwawa National Scout Camp (WW Loc KH74qr), Makwawa, Malawi, where Malcolm, GM3TAL, will operate 7Q7MH during July 2011. Although not a DXpedition as such, look for activity on the upper HF bands (and possibly 50 MHz), with SSB and CW.

This will be a month long "field day" under canvas - no towers or comfortable resort style shacks and no Internet! QSL via GM3TAL. Further details will be available soon at [www.7q7mh.org/](http://www.7q7mh.org/)

Guinea, 3XY. Operators Georg, DK7LX, Wolf, DL4WK, Sigi, DL7DF, Frank, DL7UFR, Jan,

### *History This Week*

A look back at events that made history this week - compiled by the Summerland Amateur Radio Club of Lismore, NSW and Dennis, ZS4BS. The week starting Monday 13 June 2011.

1178 - Proposed time of origin of the lunar crater Giordano Bruno, five Canterbury monks reported an explosion on the moon (only such observation known)

1834 - Sandpaper patented by Isaac Fischer Jr of Springfield, Vermont

1837 - Charles Goodyear obtains his first rubber patent

1844 - Goodyear patents vulcanisation of rubber

1849 - The gas mask is patented by Lewis Haslett, Louisville, Ky

1922 - Henry Berliner demonstrates his helicopter to the US Bureau of Aeronautics

1931 - First photoelectric cell installed commercially in West Haven, Ct





SP3CYY, and Leszek, SP3DOI will be active as 3XY1D from Guinea between 18 October and 1 November. Activity will be on 160 - 6 metres using CW, SSB and the Digital modes. They plan to have several stations on the air using 5 transceivers (4 x K2, 1 x IC-7000), 4 x kW linears, 2 x 18 m Lowband Verticals, a 2 element vertical for 40 m, a 2 element vertical for 30 m, a vertical R7 for 40, 30, 20, 17, 15, 12 and 10 m, 2 Spiderbeams for 20, 17, 15, 12 and 10 m, a 5 element Yagi for 6 m and some Beverage antennas. One station will be exclusively dedicated to RTTY, PSK31 and SSTV. QSL via DL7DF, direct or by the Bureau. For more details and updates, visit <http://www.dl7df.com/3xy1d/index.html>

Botswana. I will be going over to South Africa-Botswana in September and if any one would like to operate from Botswana for a week or 10 days, they can contact me. I will be setting up antennas at a new lodge and their web page is [www.lotsane.com](http://www.lotsane.com). I most likely will be there or going there around the 17th. I can meet anyone at the airport in Johannesburg or in Gaborone, Botswana. Charles F. Frost - Frosty, K5LBU, [frosty1@pdq.net](mailto:frosty1@pdq.net)

## African Islands on the Air

St Helena Island, ZD7. Nigel, G3TXF, plans to operate as ZD7XF from St Helena Island (IOTA AF-022, WLOTA 1488) between 22 and 30 June 2011. The operation will be from the QTH of Barrie, ZD7MY, which is at 1 200 ft ASL and has an excellent take-off to the north, overlooking Jamestown. Plans are to be active mainly on the HF bands on CW, but will also be taking antennas for 80 and 160 m as well as for 6 m. There will not be any Internet access in the shack (nor is there any mobile phone service on the island).

However, logs will be up-loaded to both LoTW and ClubLog whenever practical. QSL via home call. Further info at [www.q3txf.com/dxtrip/ZD7XF/ZD7.html](http://www.q3txf.com/dxtrip/ZD7XF/ZD7.html)

Canary Islands, EF8. Look for EF8M from Santa Maria de Guia, Las Palmas Gran Canaria (AF-004, DIE S-005, WLOTA L 0969), to be on the air during the RSGB IOTA Contest (30 - 31 July) as a Multi-Op/All-Band/High-Power entry. Operators mentioned are Valery, RD3A, Juan, EA8CAC, and Alex, UA5C. QSL via UA3DX.

## Special Event

England. The Welland Valley Amateur Radio Society will activate special event station GB0BON on 19 June 2011 for the 366<sup>th</sup> anniversary of the Battle of Naseby, the decisive battle of the English civil war. The battle took place on the 14 June 1645 in the small hamlet of Naseby just south of the town of Market Harborough in Leicestershire. The station will be located on a high point that overlooks the battlefield. This is the same location that Prince Rupert chose as his base to direct the battle from as it gave him a clear view of the surrounding area. They will operate on all bands from 3,5 MHz to 70 cm and try to be on air for as long as the petrol in the generator lasts. QSL's are 100% via eQSL and we will reply to any cards sent direct via G4XEX or via the RSGB bureau. For direct please send IRC's or 2 US\$ and a sae. (UK SAE).

## Contest Calendar

This week's contests compiled by Bruce Horn, WA7BNM. The period covered is 13 to 20 June 2011.

NAQCC Straight Key/Bug Sprint

| 00:30 - 02:30 UTC 15 June





Mode: CW  
Bands: 80, 40, 20 m  
Classes: (none)  
Max power: 5 watts  
Exchange: RST, state, province or country and NAQCC no or power  
Work stations: Once per band  
QSO Points: 1 point per QSO with non-member; 2 points per QSO with member  
Multipliers: Each state, province or country once  
Key Type Mult: 2 x if straight key, 1.5 x if bug, 1 x if other  
Score Calculation: Total score = total QSO points x total mults x key type mult  
Submit logs by: 23:59 UTC 18 June 2011  
E-mail logs to: [naqcc33@windstream.net](mailto:naqcc33@windstream.net)  
Upload log at:  
<http://naqcc.info/sprintlog.html>  
Mail logs to: John Shannon, K3WWP, 478 E. High St., Kittanning, PA 16201, USA  
Find rules at:  
<http://naqcc.info/sprint201106.html>

RSGB 80 m Club Championship, CW  
19:00 - 20:30 UTC 15 June  
Mode: CW  
Bands: 80 m Only  
Classes: (none)  
Exchange: RST and serial no  
QSO Points: 1 point per QSO  
Multipliers: (none)  
Score Calculation: (see rules)  
Submit logs by: 23:59 UTC 22 June 2011  
Upload log at:  
<http://www.rsgbcc.org/cgi-bin/hfenter.pl>  
Mail logs to: (none)  
Find rules at:  
<http://www.rsgbcc.org/hf/rules/2011/r80mc.c.shtml>

SARL Youth Day Sprint  
08:00 - 10:00 UTC 16 June  
Mode: SSB  
Bands: 40 m Only  
Classes: (none)  
Exchange: RS and age  
QSO Points: 5 points per QSO between operators 25 or younger; 2 points per QSO be-

tween 25 or younger operator and a 26 or older operator; 1 point per QSO between operators 26 or older  
Multipliers: (none)  
Score Calculation: Total score = total QSO points  
Submit logs by: 23 June 2011  
E-mail logs to: [youthsprint@sarl.org.za](mailto:youthsprint@sarl.org.za)  
Mail logs to: SARL Youth Day Sprint, PO Box 1049, Kathu 8446, South Africa  
Find rules at:  
[http://www.sarl.org.za/public/contests/SARL\\_2011\\_Contest%20Manual\\_issue\\_9.pdf](http://www.sarl.org.za/public/contests/SARL_2011_Contest%20Manual_issue_9.pdf)

NCCC Sprint Ladder  
02:30 - 03:00 UTC 17 June  
Mode: CW  
Bands: 160, 80, 40, 20 m  
Classes: Single Op  
Max power: 100 watts  
Exchange: (see rules)  
Work stations: Once per band  
QSO Points: NA station: 1 point per QSO; non-NA station: 1 point per QSO with an NA station  
Multipliers: Each US state (including KL7 and KH6) once per band; Each VE province once per band; Each North American country (except W/VE) once per band  
Score Calculation: Total score = total QSO points x total mults  
Submit logs by: 19 June 2011  
E-mail logs to: (none)  
Post log summary at:  
<http://www.hornucopia.com/3830score/>  
Mail logs to: (none)  
Find rules at:  
<http://www.ncccsprint.com/rules.html>

All Asian DX CW Contest  
00:00 UTC 18 June to 24:00 UTC 19 June  
Mode: CW  
Bands: 160, 80, 40, 20, 15, 10 m  
Classes: Asian Single Op Single Band - high or low; Non-Asian Single Op Single Band - high; JA Single Op Multi Band - high, low, junior or silver; Asian Single Op Multi Band - high or low; Non-Asian Single Op Multi Band - high; Multi-Single; Multi-Multi







Max power: HP: >100 watts; LP: 100 watts  
Exchange: RST and 2-digit age  
Work stations: Once per band  
QSO Points: (see rules)  
Multipliers: Asian Stations: DXCC entities once per band; non-Asian Stations: Asian prefixes once per band  
Score Calculation: Total score = total QSO points x total mults  
Submit logs by: 31 July 2011  
E-mail logs to: [aacw@jarl.or.jp](mailto:aacw@jarl.or.jp)  
Mail logs to: JARL, All Asian DX Contest, CW, 170-8073, Japan  
Find rules at:  
[http://www.jarl.or.jp/English/4\\_Library/A-4-3\\_Contests/2011AA\\_Rule.htm](http://www.jarl.or.jp/English/4_Library/A-4-3_Contests/2011AA_Rule.htm)

Stew Perry Topband Challenge  
15:00 UTC 18 June to 15:00 UTC 19 June  
Mode: CW  
Bands: 160 m Only  
Classes: Single Op; Multi-Op  
Max operating hours: 14 hours  
Max power: HP: >100 watts; LP: 5-100 watts; QRP: <5 watts  
Exchange: 4-Character grid square  
QSO Points: 1 point per QSO plus 1 point per 500 km; multiply QSO points by 2 if low power station; multiply QSO points by 4 if QRP station  
Multipliers: Low power: x 1.5; QRP: x 3  
Score Calculation: Total score = total QSO points x power multiplier  
Submit logs by: 31 July 2011  
E-mail logs to: [tbd@contesting.com](mailto:tbd@contesting.com)  
Mail logs to: BARC, 15125 SE Bartell Rd, Bor-ing, OR 97009, USA  
Find rules at:  
<http://jzap.com/k7rat/stew.rules.txt>

West Virginia QSO Party  
16:00 UTC 18 June to 02:00 UTC 19 June  
Mode: CW, SSB, Digital  
Bands: 80, 40, 20, 15, 10 m  
Classes: Single Op - fixed - CW, SSB, Digital or Mixed - QRP, low or high; Multi-Multi - fixed - CW, SSB, Digital or Mixed - QRP, low or high; Mobile - CW, SSB, Digital or Mixed - QRP, low or high

Max power: HP: >100 watts; LP: 100 watts; QRP: 5 watts CW, 10 watts phone  
Exchange: WV: RS(T) and county; non-WV: RS(T) and state, province or country  
Work stations: Once per band per mode  
QSO Points: 2 points per SSB QSO with WV mobile; 3 points per CW QSO with WV mobile; 1 point per SSB QSO with fixed; 2 points per CW QSO with fixed  
Bonus: 100 points per QSO with W8WVA; WV Mobile Bonus: 100 points for each county activated; Fixed Station Bonus: 100 points for working a WV mobile in at least 5 counties  
Multipliers: WV Stations: Each WV county, state, VE province, DXCC country once; non-WV Stations: Each WV county once  
Score Calculation: Total score = (total QSO points x total mults) and bonus points  
Submit logs by: 20 July 2011  
E-mail logs to: [wvqlogs@gmail.com](mailto:wvqlogs@gmail.com)  
Mail logs to: Jeffrey Woods, 123 Gladesville Cemetery Rd., Independence WV 26374, USA  
Find rules at:  
<http://www.qsl.net/wvsarc/wvqp/wvqp.html>

Kid's Day Contest  
18:00 - 23:59 UTC 18 June  
Mode: SSB  
Bands: 80, 40, 20, 17, 15, 12, 10, 2 m repeaters  
Classes: (none)  
Exchange: name, age, QTH and favourite colour  
Submit logs by: 18 July 2011  
E-mail logs to: (none)  
Mail logs to: (see rules)  
Find rules at: <http://www.arrl.org/kids-day>

Feld Hell Sprint  
20:00 - 22:00 UTC 18 June  
Mode: Feld Hell  
Bands: 10m Only  
Classes: (none)  
Max power: Standard: 100 watts; QRP: 5 watts  
Exchange: (see rules)  
Work stations: Once per band  
QSO Points: (see rules)  
Bonus Points: (see rules)





Multipliers: (see rules)  
Score Calculation: (see rules)  
Submit logs by: 1 July 2011  
E-mail logs to: (none)  
Post log summary at:  
<http://sites.google.com/site/feldhellclub/Home/contests>  
Mail logs to: (none)  
Find rules at:  
<http://sites.google.com/site/feldhellclub/Home/contests>

Run for the Bacon QRP Contest  
01:00 - 03:00 UTC 20 June  
Mode: CW  
Bands: 160, 80, 40, 20, 15, 10 m  
Classes: Single Band; All Band  
Max power: 5 watts  
Exchange: RST, state, province or country and member no or power

Work stations: Once per band  
QSO Points: 1 point per QSO with non-member; 3 points per QSO with member on same continent; 5 points per QSO with member on different continent  
Multipliers: Each state, province or country once  
Multiply mults by 2 if >50 members worked  
Score Calculation: Total score = total QSO points x total mults  
Submit logs by: 26 June 2011  
E-mail logs to: (none)  
Upload log at:  
<http://www.fqgrp.org/pigrun/autolog.php>  
Mail logs to: (none)  
Find rules at: <http://www.fqgrp.org/pigrun/>

## Next Week's Contests

SKCC Sprint, 00:00 - 02:00 UTC 22 June  
NAQCC Straight Key/Bug Sprint, 00:30 - 02:30 UTC 22 June  
CWops Mini-CWT Test, 13:00 - 14:00 UTC and 19:00 - 20:00 UTC 22 June and 03:00 - 04:00 UTC 23 June  
RSGB 80 m Club Championship, SSB, 19:00 - 20:30 UTC 23 June  
NCCC Sprint Ladder, 02:30 - 03:00 UTC 24 June  
VK/Trans-Tasman 160 m Contest, Phone, 08:00 - 14:00 UTC 25 June  
His Maj. King of Spain Contest, SSB, 12:00 UTC 25 June to 12:00 UTC 26 June  
Ukrainian DX DIGI Contest, 12:00 UTC 25 June to 12:00 UTC 26 June  
Marconi Memorial HF Contest, 14:00 UTC 25 June to 14:00 UTC 26 June  
ARCI Milliwatt Field Day, 18:00 UTC 25 June to 21:00 UTC 26 June  
ARRL Field Day, 18:00 UTC 25 June to 21:00 UTC 26 June

Items used with acknowledgement to The ARRL Letter, Amateur Radio Newsline, OPDX Bulletin, 425 DX Bulletin, DXNL Bulletin, ARRL DX News, WIA-News, the RSGB News, Southgate ARC and Pete's DX Newsdesk.

Newsletter editors are most welcome to use material from HF Happenings, just remember to acknowledge the source (which could be any one of the names mentioned above). HF Happenings can be provided in MS Word format.

